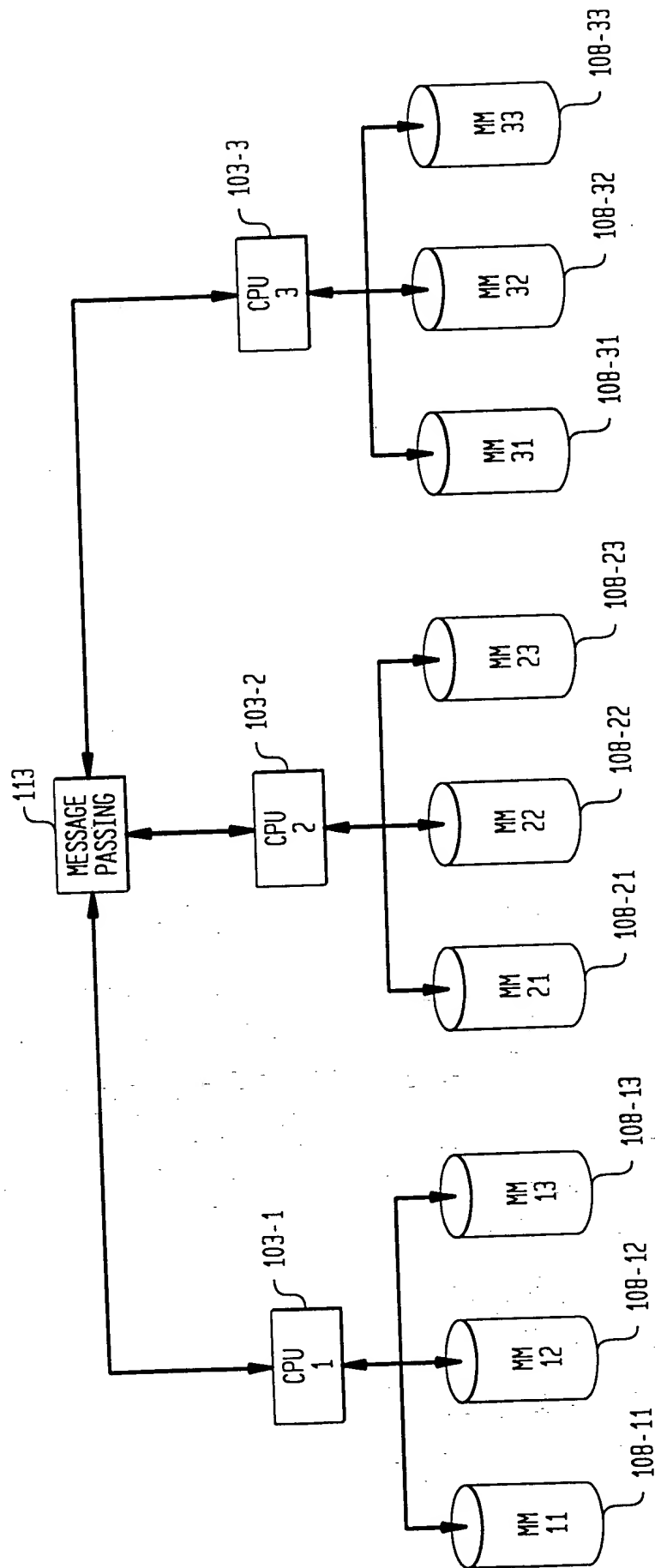


FIG. 1(A)

FIG. 1B



BEGIN

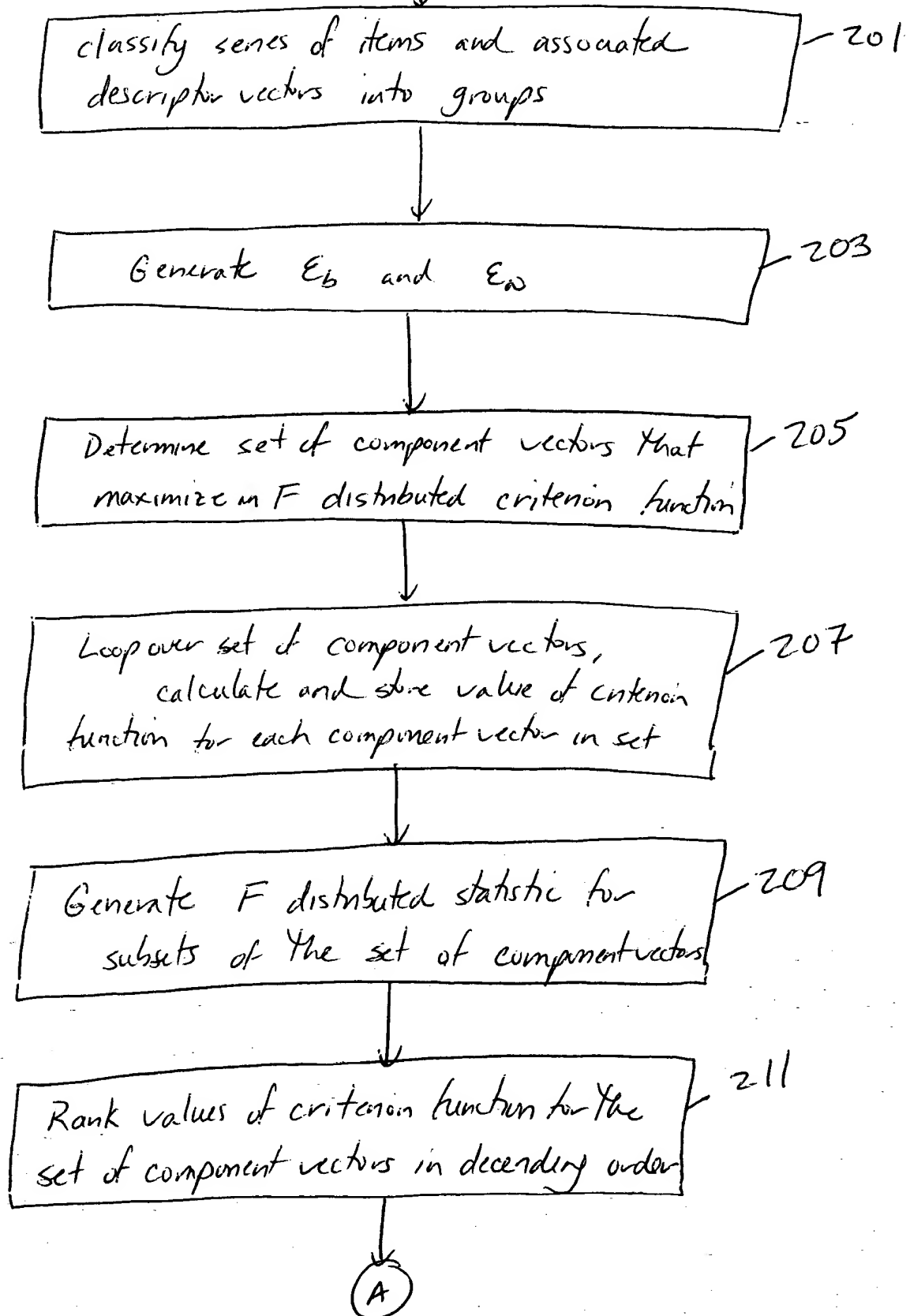


FIG 2(A)

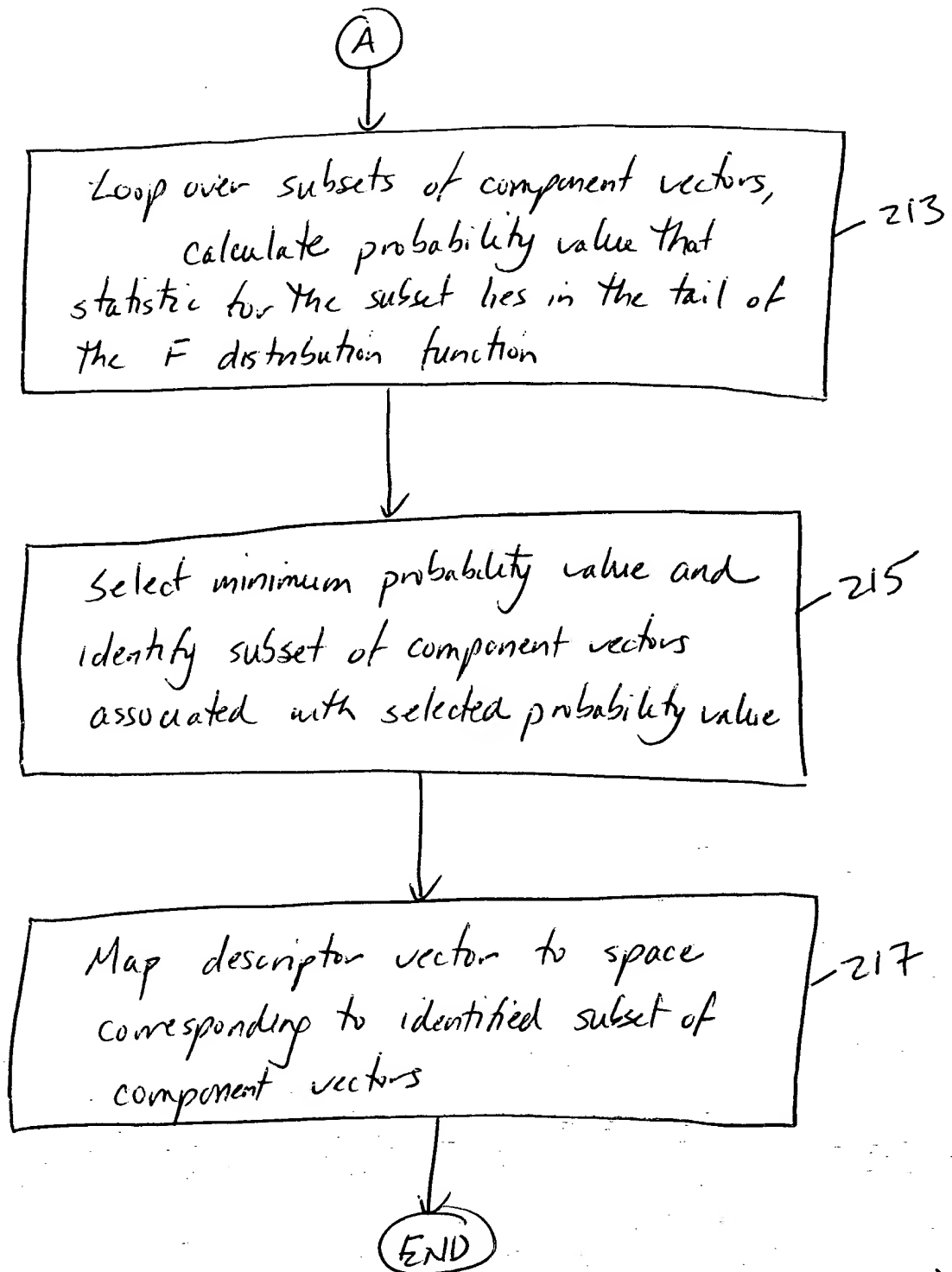


FIG. 2(B)

Determine set of eigenvalue/eigenvector pairs for the matrix ϵ_w 301

Calculate set of eigen value/eigenvector pairs for matrix $(\epsilon_w)^{-1/2} \epsilon_b (\epsilon_w)^{-1/2}$ utilizing eigenvalue/eigenvector pairs of ϵ_w 303

Transform eigenvectors generated in step 303 to \vec{w} space 305

END

FIG. 3

FIG. 4

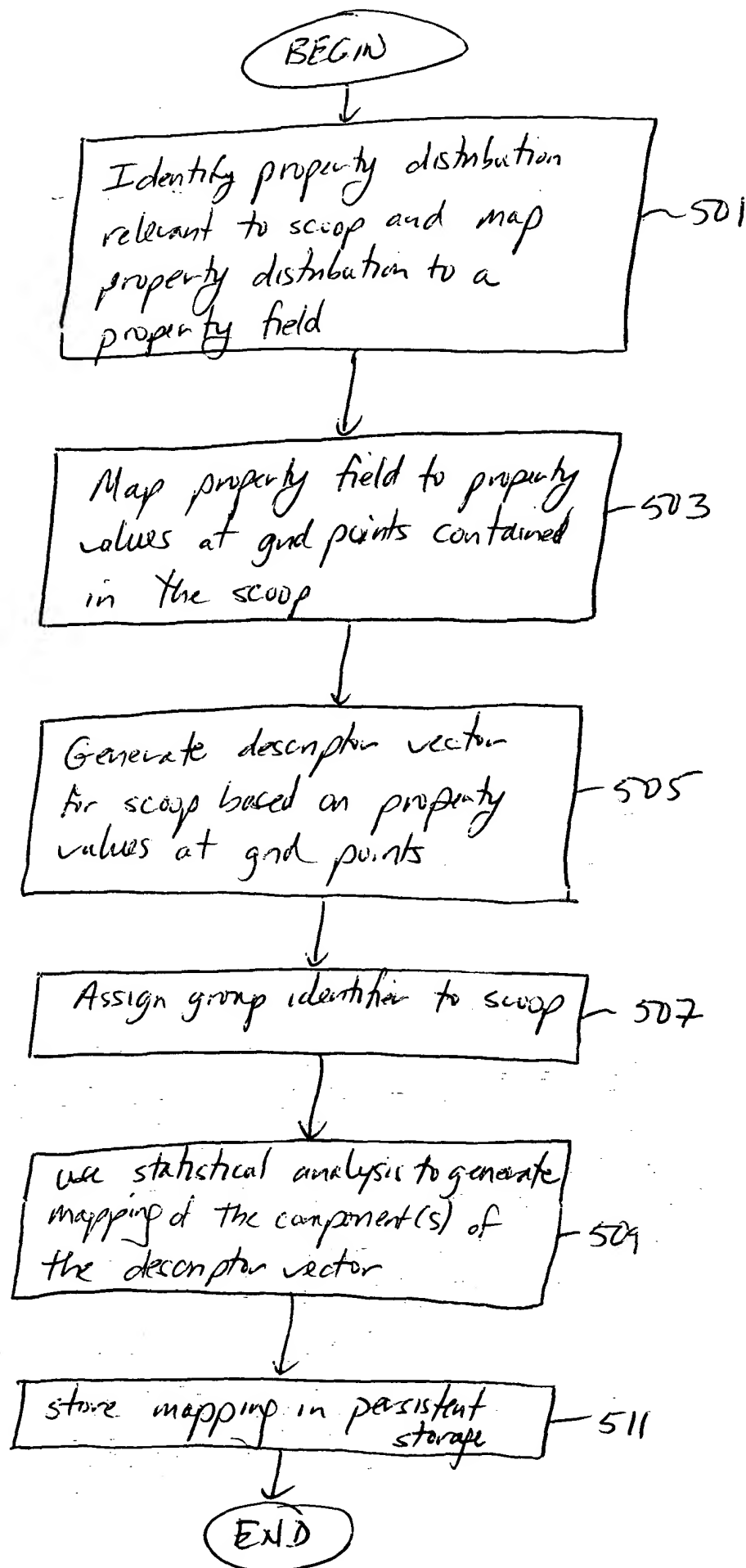


FIG. 5

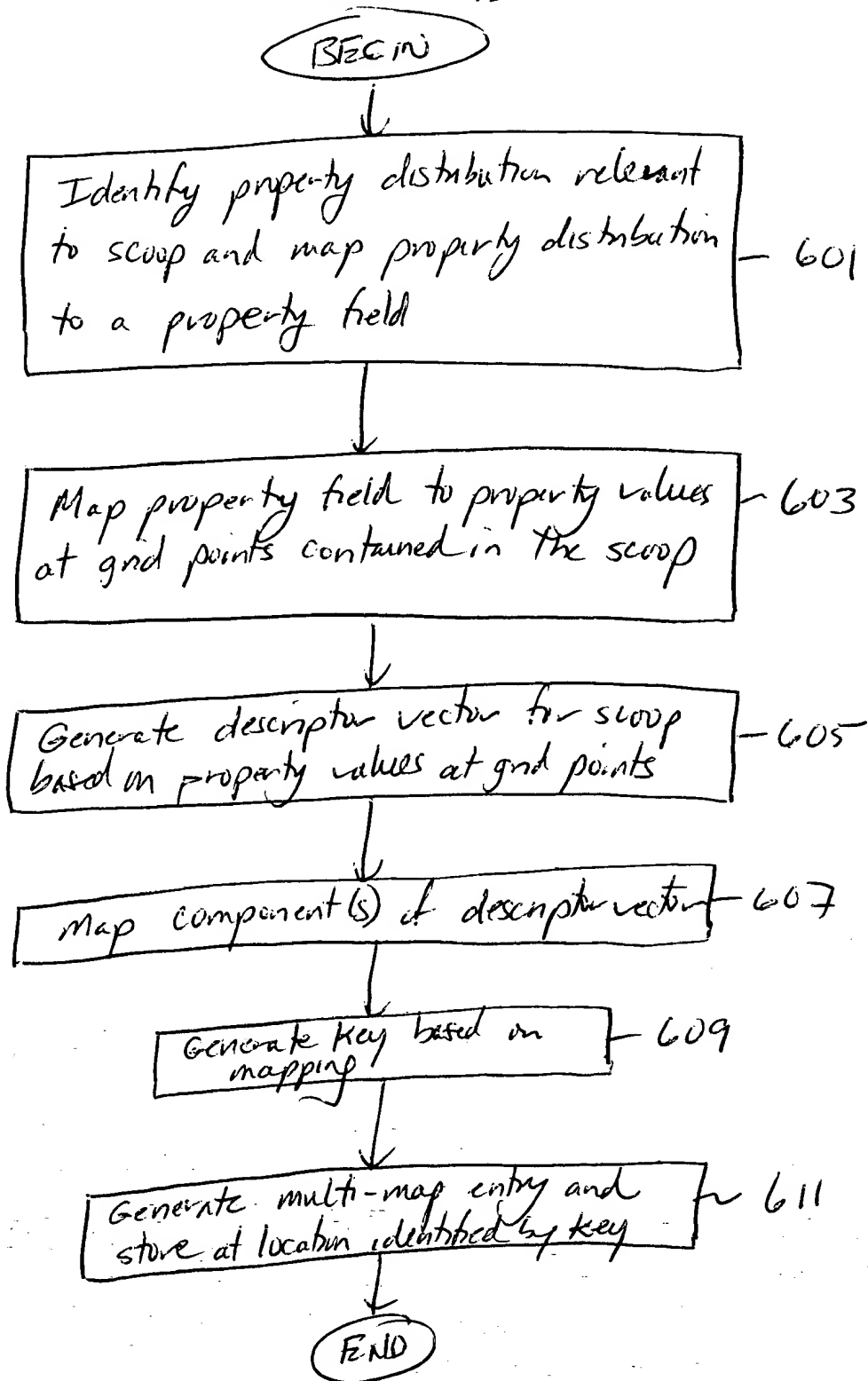


FIG. 6

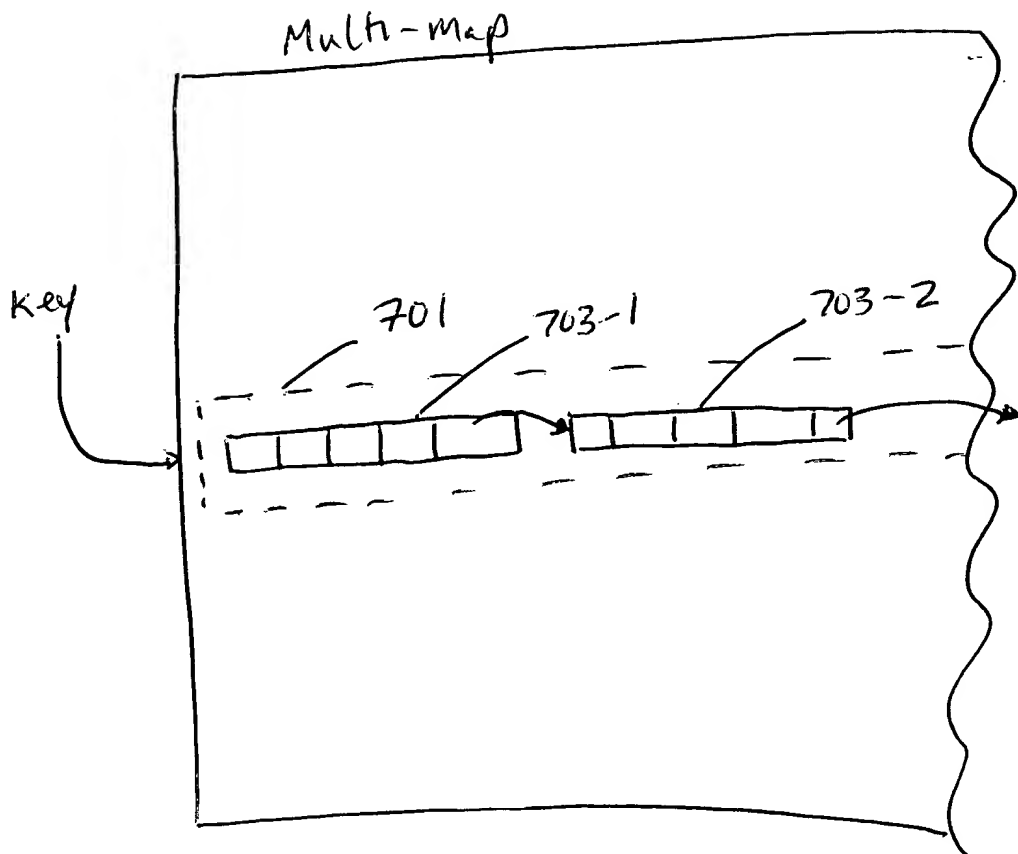


FIG. 7(A)

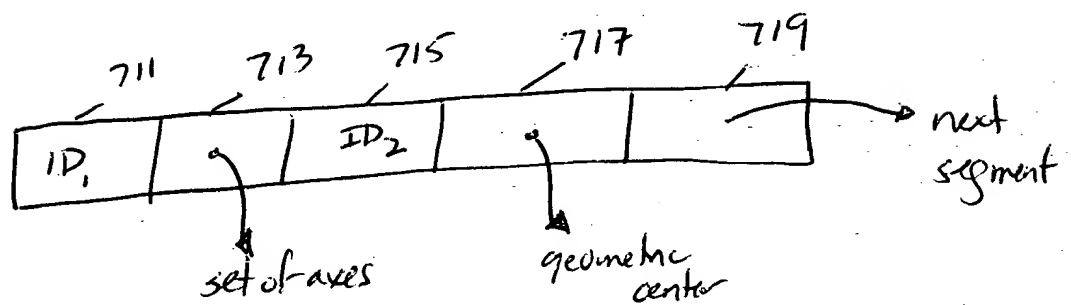


FIG. 7(B)

65420 393260

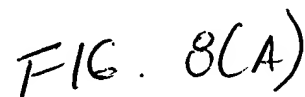


FIG. 8(A)

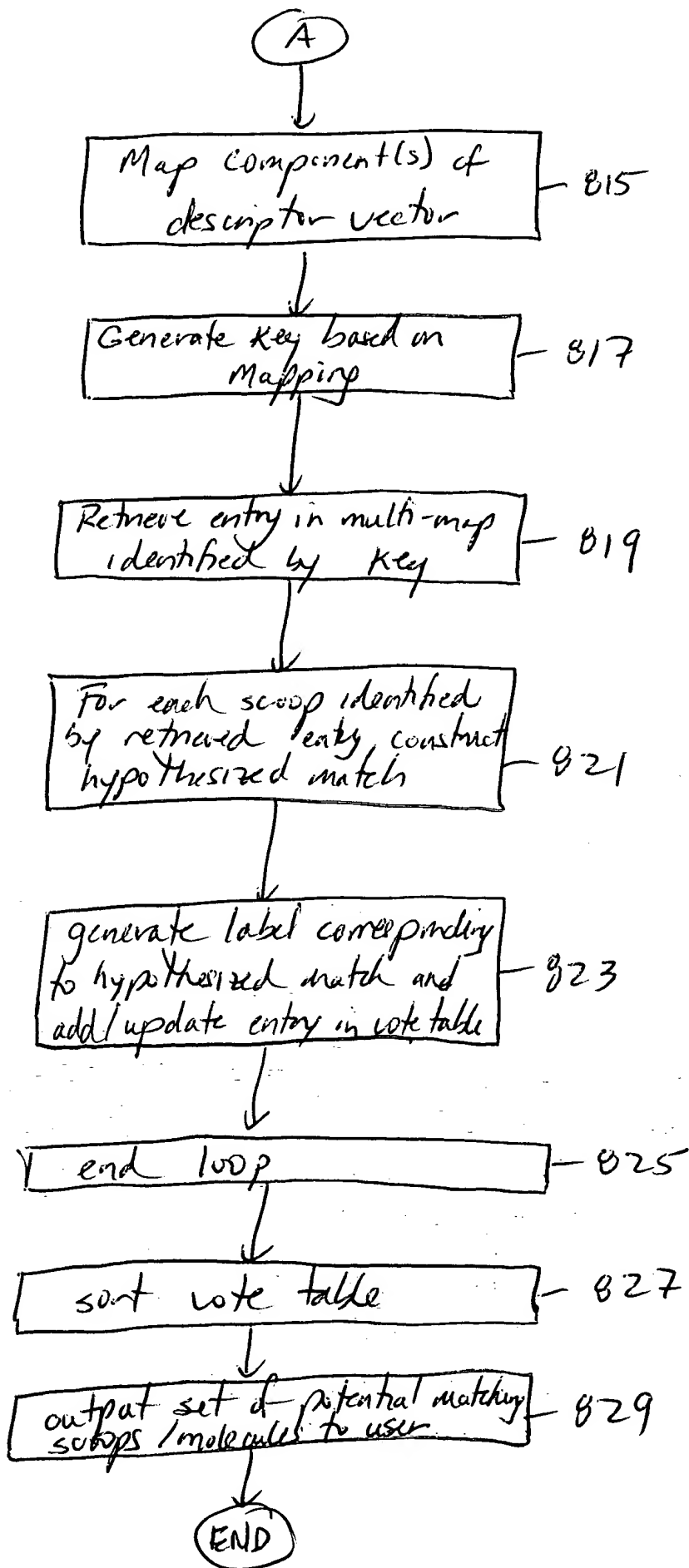


FIG. 9(B)

BEGIN

generate data characterizing transformation between input reference frame and sensed inertial frame for target scoop 901

calculate alignment transformation whereby sensed inertial frame for target scoop aligns with sensed inertial frame for stored scoop 903

Apply alignment transformation to geometric center of stored molecule 905

center
in
volume
query
molecule 907

N

Y

Generate label based on parameters of alignment transformation and center and ID 911

update vote table entry identified by label or add new vote table entry 913

A

FIG. 9(A)

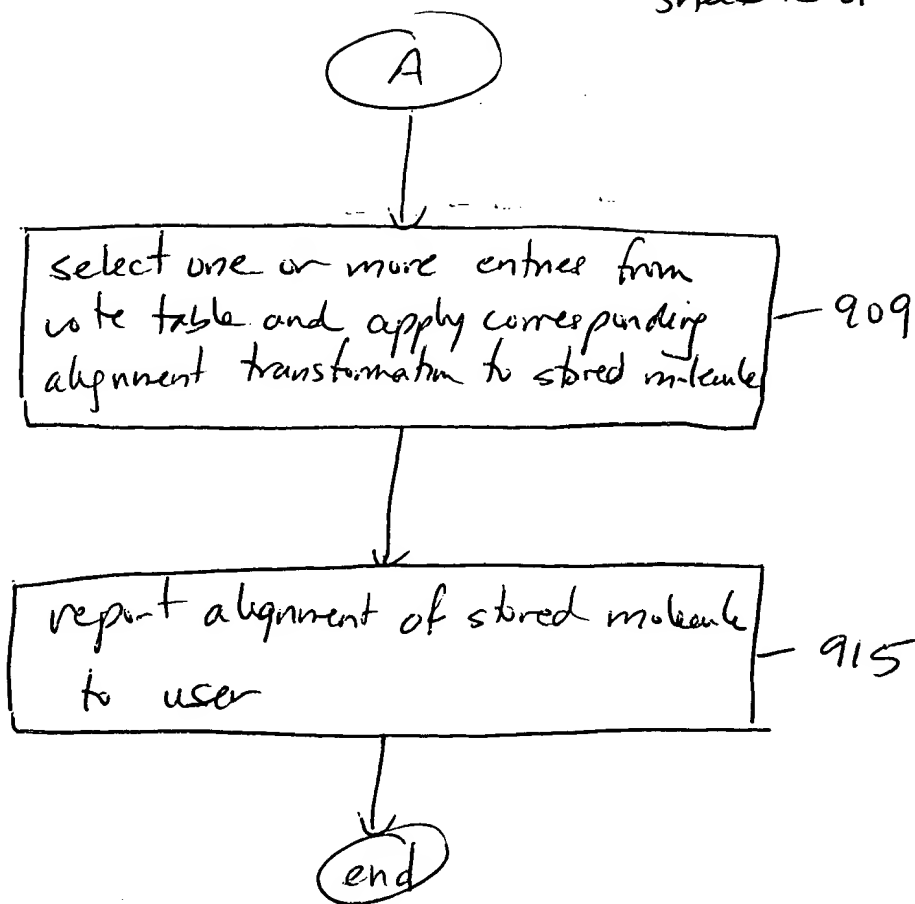


FIG. 9(B)

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